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# 1 Unconstrained speculative execution with predicated state buffering

Hideki Ando, Chikako Nakanishi, Tetsuya Hara, Masao Nakaya

 May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2

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Speculative execution is execution of instructions before it is known whether these instructions should be executed. Compiler-based speculative execution has the potential to achieve both a high instruction per cycle rate and high clock rate. Pure compiler-based approaches, however, have greatly limited instruction scheduling due to a limited ability to handle side effects of speculative execution. Significant performance improvement is, thus, difficult in non-numerical applications. This paper ...

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